CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-01-05** **Date: 12-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/01
Sample Type	:	Dalmia cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.87	–
2	Finess by Air permeablity method (m^2/kg, Min)	272.8	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-08-01-05** **Date: 08-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/01
Sample Type	:	Dalmia cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-05-2017

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-08-01-05** **Date: 13-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/02
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	325	325	6.5	93.5	90-100
3	10 mm	2442	2767	55.3	44.7	25-55
4	4.75 mm	2078	4845	96.9	3.1	0-10
5	Pan	155	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-08-01-05** **Date: 13-05-2017**

Sample ID No : 2017-08-01-05/02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.51	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-08-01-05** **Date: 13-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	10-05-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	130	212	21.2	78.8	60-95	75-100	85-100	95-100
4	1.18 mm	190	402	40.2	59.8	30-70	55-90	75-100	90-100
5	600 micron	210	612	61.2	38.8	15-34	35-59	60-79	80-100
6	300 micron	170	782	78.2	21.8	5-20	8-30	12-40	15-50
7	150 micron	133	915	91.5	8.5	0-10	0-10	0-10	0-15
Pan		85	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-08-01-05** **Date: 13-05-2017**

Sample ID No : 2017-08-01-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.29	–
2	Specific Gravity	2.5	–
3	Material finer than 75 micron(%)	7.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2017-08-01-05 **Date: 13-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/05
Sample Type/Size	:	Solid concrete blocks of size (400X200X100)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex - C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	10-05-2017

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	202	200	16160	32.630	2019.2	1989.3	Not less than 1800Kg/m^3
2	402	201	201	16241	31.720	1953.1		
3	401	200	201	16120	32.17	1995.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	34.610	32.360	6.95	6.50	Shall not be more than 10% by mass
2	34.270	32.170	6.53		
3	33.460	31.560	6.02		

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Lab ID : **CP-2017-08-01-05** **Date: 13-05-2017**

Sample ID No : **2017-08-01-05/05**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	201	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	400	200	201	
3	402	202	200	
4	401	203	200	
5	400	201	203	
6	403	200	201	
7	404	202	202	
8	401	201	201	
9	402	201	200	
10	401	200	202	
11	400	201	202	
12	402	202	201	
13	401	203	203	
14	403	201	201	
15	404	200	200	
16	400	201	201	
17	400	203	202	
18	401	202	202	
19	402	201	203	
20	401	200	203	
Average of 20	**401**	**201**	**202**	

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Lab ID : CP-2017-08-01-05

Date: 13-05-2017

Sample ID No : 2017-08-01-05/05

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	401	201	80601	337.5	4.2	4.2
2	400	200	80000	346.8	4.3	
3	402	202	81204	318.9	3.9	
4	401	203	81403	362.8	4.5	
5	400	201	80400	331.8	4.1	
6	403	200	80600	341.6	4.2	
7	404	202	81608	327.3	4.0	
8	401	201	80601	338.4	4.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/05/2017

Lab ID	:	CP-2017-08-19-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-05-2017
Sample ID No	:	2017-08-19-02/01
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/05/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	23/05/2017	30/05/2017	150.14 X 150.24 X 150.47	22557	8.174	394.7	17.5	17.4
2	Footing Concrete	M20	23/05/2017	30/05/2017	150.11 X 150.98 X 150.44	22664	8.176	403.4	17.8	
3	Footing Concrete	M20	23/05/2017	30/05/2017	150.37 X 150.04 X 150.56	22562	8.142	381.3	16.9	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/06/2017

Lab ID	:	**CP-2017-08-19-02**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-05-2017
Sample ID No	:	2017-08-19-02/02
Customer ID	:	Footing Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Concrete	M20	23/05/2017	20/06/2017	150.54 X 150.43 X 150.66	22646	8.165	507.3	22.4	22.4
2	Footing Concrete	M20	23/05/2017	20/06/2017	149.65 X 150.11 X 150.65	22464	8.153	518.9	23.1	
3	Footing Concrete	M20	23/05/2017	20/06/2017	149.65 X 150.65 X 150.54	22545	8.165	491.5	21.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-26-02** **Date: 06/06/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-2017
Sample ID No	:	2017-08-26-02/01
Customer ID	:	Plinth Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Concrete	M20	30/05/2017	06/06/2017	150.15 X 150.47 X 150.98	22593	8.174	399.9	17.7	17.1
2	Plinth Concrete	M20	30/05/2017	06/06/2017	150.44 X 150.78 X 150.77	22683	8.174	374.3	16.5	
3	Plinth Concrete	M20	30/05/2017	06/06/2017	150.64 X 150.88 X 150.75	22729	8.125	390.9	17.2	

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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-26-02**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-06-2017
Sample ID No	:	2017-08-26-02/02
Customer ID	:	Plinth Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/06/2017

Date: 27/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Plinth Concrete	M20	30/05/2017	27/06/2017	150.88 X 150.64 X 150.88	22729	8.174	525.0	23.1	22.6
2	Plinth Concrete	M20	30/05/2017	27/06/2017	150.47 X 150.66 X 150.64	22670	8.155	503.3	22.2	
3	Plinth Concrete	M20	30/05/2017	27/06/2017	149.78 X 150.61 X 150.65	22558	8.179	507.6	22.5	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-26-02** **Date: 09/06/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-2017
Sample ID No	:	2017-08-26-02/03
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	09/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	02/06/2017	09/06/2017	150.82 X 150.51 X 150.19	22700	8.132	383.6	16.9	17.4
2	Column Concrete	M20	02/06/2017	09/06/2017	151.04 X 150.23 X 150.11	22691	8.164	397.1	17.5	
3	Column Concrete	M20	02/06/2017	09/06/2017	151.92 X 150.16 X 150.72	22812	8.206	403.8	17.7	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-08-26-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-2017
Sample ID No	:	2017-08-26-02/04
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 30/06/2017

Date of test : 30/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M20	02/06/2017	30/06/2017	150.23 X 150.14 X 150.26	22556	8.230	503.0	22.3	22.6
2	Column Concrete	M20	02/06/2017	30/06/2017	150.46 X 150.29 X 150.87	22613	8.220	522.4	23.1	
3	Column Concrete	M20	02/06/2017	30/06/2017	150.19 X 150.10 X 150.32	22544	8.230	507.2	22.5	

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2017-08-26-02** **Date: 10/07/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2017
Sample ID No	:	2017-08-26-02/05
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	03/07/2017	10/07/2017	150.44 X 150.74 X 150.67	22677	8.155	378.7	16.7	17.1
2	Roof Concrete	M20	03/07/2017	10/07/2017	150.65 X 149.87 X 150.72	22578	8.145	390.6	17.3	
3	Roof Concrete	M20	03/07/2017	10/07/2017	150.47 X 150.91 X 150.87	22707	8.175	390.6	17.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-08-26-02
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-07-2017
Sample ID No	:	2017-08-26-02/06
Customer ID	:	Roof Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 31/07/2017

Date of test : 31/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Roof Concrete	M20	03/07/2017	31/07/2017	150.44 X 150.24 X 150.47	22602	8.174	485.9	21.5	21.4
2	Roof Concrete	M20	03/07/2017	31/07/2017	150.11 X 150.98 X 150.44	22664	8.176	471.4	20.8	
3	Roof Concrete	M20	03/07/2017	31/07/2017	150.77 X 150.44 X 150.56	22682	8.142	496.7	21.9	

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-08-01-05** **Date: 12-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub division, BBMP, Bangalore.
Project Name	:	Construction of additional floor to existing Samudaya Bhavana at Veeranjeneya Temple in Ward no.04
Agency	:	Sri. U. Ramesh, No.12, 4th cross, Sunrise Colony, R. N. Nagara, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/WO/42/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-05-2017
Sample ID No	:	2017-08-01-05/04
Sample Type	:	INDUS TMT STEEL
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	11-05-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	INDUS TMT STEEL	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	INDUS TMT STEEL	Fe500	10	0.615	568	685	20.5%	Satisfactory	Satisfactory
3	INDUS TMT STEEL	Fe500	12	0.887	578	692	20.0%	Satisfactory	Satisfactory
4	INDUS TMT STEEL	Fe500	16	1.58	585	690	19.5%	Satisfactory	Satisfactory
5	INDUS TMT STEEL	Fe500	20	2.47	588	693	19.5%	Satisfactory	Satisfactory

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